# Notes on the birds of Parque Nacional Saslaya, Reserva de Biosfera Bosawás, Nicaragua

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SUMMARY.—We detail records of 23 rare or poorly known species from Parque Nacional Saslaya in the Reserva de Biosfera Bosawás of the Región Autónoma del Atlántico Norte in Nicaragua. These include the northernmost records of Violaceous Quail-Dove *Geotrygon violacea*, Black-headed Tody-Flycatcher *Todirostrum nigriceps* and Scarlet-thighed Dacnis *Dacnis venusta*. These findings clarify the northern range limits of several Caribbean slope species and highlight the importance of Central America's largest remaining wilderness area for biodiversity conservation.

Recent field work in eastern Honduras has documented northward range extensions for several Central American Caribbean slope species previously thought to reach only to Costa Rica or southern Nicaragua (Marcus 1983, Anderson et al. 2004, Vallely et al. 2010). Northern Nicaragua also hosts extensive Caribbean slope humid forest but remains little surveyed since the collections of W. W. Huber (1932) at El Edén on 20 March-10 April 1922. In particular, the extensive Reserva de Biosfera Bosawás (RBB), including parts of dpto. Jinotega and the Región Autónoma del Atlántico Norte (RAAN), and spanning elevations of 200–1,650 m, is poorly explored. RBB encompasses 19,922 km<sup>2</sup> including buffer zones and several core areas of 8,060 km<sup>2</sup>. This protected area, with those in adjacent eastern Honduras, forms the largest remaining wilderness in Central America. Although the northern RBB is sparsely populated, Parque Nacional Saslaya (PNS) encompassing 631 km<sup>2</sup> in the south-eastern RBB is threatened by deforestation from small-landholder claims, some well inside the park boundaries (Kaimowitz et al. 2003, Stocks et al. 2007; ACV, LC-D pers. obs.). Anthropogenic landscapes now almost completely surround the eastern and southern borders of PNS (Stocks et al. 2007). While management challenges facing PNS are formidable, the area hosts many rare and poorly known species, and offers valuable opportunities for research, conservation and tourism. We are unaware of previously published reports on the avifauna of PNS and the larger core areas of the RBB to the north are virtually unknown to ornithologists. To date, 262 bird species have been reported in PNS (pers. obs.). Here, we detail observations of 23 rare or poorly known species in PNS, mostly in the río Labú drainage, but also at Cerro El Torito in the western PNS.

### Methods

We visited the PNS on 14–20 April 2009 (LC-D), 30 April–8 May 2012 (LC-D) and 3–13 March 2013 (ACV, LC-D). We searched for birds primarily in humid lowland rainforest and along adjacent watercourses. In May 2012 and March 2013 we used a dozen 12 × 2.5 m mist-nets with 30–36 mm mesh size deployed in forest understorey. On 2–8 May 2012 we amassed 546.33 mist net hours, and on 4–12 March 2013 another 582 mist-net hours. Observations were gathered opportunistically along the limited network of existing trails and passable watercourses. Coordinates for sites within PNS are: Cerro El Torito 13°42′50″N, 85°01′20″W, río Labú drainage 13°41′20″N, 85°01′20″W, Camp La Vaquita 13°43′50″N, 85°01′49″W. The locations of these and most other localities mentioned in the text are shown in Fig. 1.

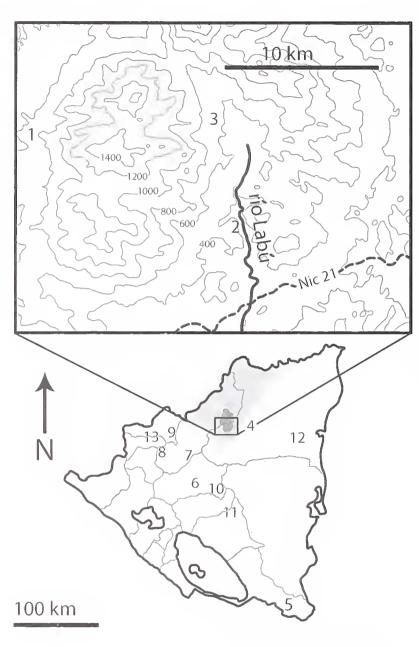


Figure 1. Map showing the location of Parque Nacional Saslaya (PNS, dark shaded area) within the Reserva de Biosfera Bosawás (pale shaded area) in Nicaragua. Inset shows topography and individual sites within PNS. Numbers refer to sites mentioned in the text: (1) Cerro El Torito, PNS; (2) río Labú drainage, PNS; (3) Camp La Vaquita, PNS; (4) El Edén, Región Autónoma del Atlántico Norte (RAAN); (5) río San Juan drainage, dpto. Río San Juan; (6) río Grande, dpto. Matagalpa; (7) Peñas Blancas, dpto. Jinotega; (8) Reserva El Jaguar, dpto. Jinotega; (9) Cerros Las Chachagüas, dpto. Jinotega; (10) Cerro Musún, dpto. Matagalpa; (11) Santo Domingo, dpto. Chontales; (12) Alamikangban / Layasiksa area, RAAN; (13) San Rafael del Norte, dpto. Jinotega.

## **Species accounts**

### SOLITARY EAGLE Butcogallus solitarius

Considered Near Threatened (IUCN 2013) and very rare and local throughout its range. T. R. Howell (*in* Martínez-Sánchez & Will 2010) considered *B. solitarius* hypothetical in Nicaragua and knew of no records. Martínez-Sánchez (2007) mentioned a sight record from the north-central highlands of Nicaragua (dpto. Nueva Segovia) on 18 January 2004. On 3 May and 6 May 2012, LC-D & G. Duriaux observed singles over the río Labú drainage at 425 m. On 11 March 2013 we observed a pair in courtship flight near Camp La Vaquita at *c*.650 m. A few minutes later a single, persistently vocalising, adult was seen at close range flying low over the canopy. On 13 March 2013 we observed an adult circling over the río Labú drainage at *c*.400 m. D. Hille (pers. comm.) also observed one at PNS on 15 January 2013. Given the few reports in recent years from northern Central America (outside Belize) we suspect that PNS (and perhaps the greater RBB) may represent an important regional stronghold.

## BLACK-AND-WHITE HAWK-EAGLE Spizaetus melanoleucus

T. R. Howell (*in* Martínez-Sánchez & Will 2010) listed just two historical records from Nicaragua and the species is generally considered scarce and local over its extensive range. Three records from the río Labú drainage appear to be the first in northern Nicaragua: ACV & LC-D observed a single adult over the río Labú drainage, at 425 m, on 5, 7 and 8 March 2013.

## SLATY-BACKED FOREST FALCON Micrastur mirandollei

Poorly known in Central America and long thought to range no further north than Costa Rica (AOU 1998). One seen by LC-D on 17 April 2009 at Cerro El Torito, PNS. It clearly showed plain white underparts and a yellow cere, eliminating Semiplumbeous Hawk *Leucopternis semiplumbeus*. ACV & LC-D also heard the distinctive song of *M. mirandollei* in the pre-dawn darkness at *c.*600 m on the mornings of 9–10 March 2013 at Camp La Vaquita. These are among the northernmost records, as the species has also recently been reported 140 km to the north in dpto. Gracias a Dios in eastern Honduras (Jones & Komar 2013b).

## VIOLACEOUS QUAIL-DOVE Geotrygon violacea

Particularly rare in Central America, where unrecorded north of Nicaragua. Collected by Richardson early in the 20th century at Peñas Blancas in eastern dpto. Jinotega and in the río San Juan drainage at Los Sábalos (Martínez-Sánchez & Will 2010). More recently found in central Nicaragua at Cerro Musún by LC-D (eBird 2013). On 5 March 2013 ACV observed a single adult female for several minutes at close range in the río Labú drainage at 425 m, which is the northernmost record ever.

## SCARLET MACAW Ara macao

Described by Huber (1932) as common around El Edén. Decades later T. R. Howell suggested that it was declining on the Caribbean slope of Nicaragua (Martínez-Sánchez & Will 2010). We encountered singles and pairs at Cerro El Torito and in the río Labú drainage, PNS. A. Farnsworth (eBird 2013) also reported it at río Labú on 27 March 1996, and D. Hille (pers. comm.) encountered two at PNS on 18 January 2013. Though the species persists at PNS, large macaws are usually easily detected and our few encounters do not suggest the presence of a large population.

### RUFOUS-VENTED GROUND CUCKOO Neomorphus geoffroyi

Very poorly known in Nicaragua, with historical specimens from the central foothills at Chontales (Salvin & Godman 1896), río Tuma and Peñas Blancas, and from southern Nicaragua in the río San Juan region at Savala. Unreported in northern Nicaragua since Howell (1971) listed it for the Caribbean lowlands near Waspam, RAAN. We have no conclusive evidence for its presence at río Labú, PNS, but park guards, unprompted by us, described the species in convincing detail and appeared familiar with its natural history. Pending more evidence we regard the species' occurrence as hypothetical.

## **CENTRAL AMERICAN PYGMY OWL** Glaucidium griseiceps

Poorly known in northern Nicaragua. Several recent records from the río San Juan drainage on the southern Caribbean slope (Martínez-Sánchez & Will 2010). We heard and recorded this owl's distinctive song on 9 March 2013 at Camp La Vaquita, at *c*.600 m.

## SHORT-TAILED NIGHTHAWK Lurocalis semitorquatus

Widespread species known from only a handful of records in Nicaragua, the earliest a specimen taken by Huber (1932) on the río Bambana, RAAN. Additional records are given by Martínez-Sánchez & Will (2010). At dusk on 6 and 12 March 2013 we observed singles in the río Labú drainage PNS. A. Farnsworth (eBird 2013) also reported it there on 27 March 1996.

## **TODY-MOTMOT** Hylomanes momotula

Endemic to southern Mexico and Central America, where uncommon and local throughout. LC-D heard and saw one at 835 m at Cerro el Torito on 18 April 2009.

## **KEEL-BILLED MOTMOT** Electron carinatinm

Scarce, local, endemic to the Caribbean slope foothills of Central America, and treated as Vulnerable (IUCN 2013). We obtained sound-recordings at Camp La Vaquita, at *c*.600 m, in the río Labú PNS. A. Farnsworth (eBird 2013) also reported the species there on 27 March 1996.

### **GREAT JACAMAR** Jacamerops aureus

Long thought to range no further north than Costa Rica (AOU 1998), this widespread but scarce species was first reported from adjacent eastern Honduras in 2004 (Jones 2004, Vallely *et al.* 2010). The first records for Nicaragua were in the río San Juan region (Múnera-Roldán *et al.* 2007). Given decades of habitat destruction, thought to be declining in Central America (e.g. in Costa Rica; Sigel *et al.* 2005). We heard two and observed another at close range responding to playback on 12 March 2008 in the río Labú drainage.

### **CINNAMON WOODPECKER** *Celens loricatns*

Long known in Nicaragua mainly from the río San Juan region (AOU 1998). T. R. Howell (*in* Martínez-Sánchez & Will 2010) accepted its presence in northern Nicaragua based on a specimen taken at 275 m by Huber (1932) at El Edén, RAAN. Howell remarked that 'if its range is continuous it must be rare in most of eastern Nicaragua to have been missed by every other observer and collector, including Richardson'. We found it common in the río Labú with multiples heard daily and one observed at close range responding strongly to playback. A. Farnsworth (eBird 2013) also reported it on 27 March 1996. ACV & M. Tórrez detected a single by voice near Layasiksa in the eastern lowlands of RAAN on 23 August 2009. In northern Nicaragua may be confined to the interior Caribbean foothills, a little-studied region, and perhaps disjunct in relation to the southern Central American population.

### WHITE-FRONTED NUNBIRD Monasa morphoeus

This widespread species reaches its northernmost limit in eastern Honduras (AOU 1998, Rasmussen & Collar 2002). It is poorly known in Nicaragua and has perhaps declined in abundance in parts of southern Central America (Sigel *et al.* 2005). We detected the species once by voice on 4 March 2013 in the río Labú drainage. A. Farnsworth (eBird 2013) also reported *M. morphoens* there on 27 March 1996.

### **STRIPED WOODHAUNTER** *Hyloctistes subnlatns*

Reaches its northernmost limit in eastern Honduras (Vallely *et al.* 2010) and known in northern Nicaragua from specimens taken at Río Grande, dpto. Matagalpa, and Peñas Blancas, dpto. Jinotega, by W. B. Richardson in 1908–09 (Miller & Griscom 1925). LC-D

trapped two on 3–4 May 2012 in the río Labú drainage (Jones & Komar 2013a) and ACV observed a single responding to playback there on 15 March 2013.

## **SCALE-CRESTED PYGMY TYRANT** *Lophotriccus pileatus*

Long thought to range no further north than Costa Rica (AOU 1998). Marcus (1983) first reported it from eastern Honduras but the species was unknown in Nicaragua until one was closely observed by LC-D at Cerro El Torito on 17–18 April 2009. On 14 May 2009 LC-D & G. Duriaux observed two at Reserva El Jaguar, dpto. Jinotega. On 23 February 2010 G. Duriaux & LC-D observed one at Cerros Las Chachagüas, dpto. Jinotega (Chavarría & Batchelder 2012). We located two by voice near Camp La Vaquita, *c*.650 m, in the río Labú drainage on 8–9 March 2013.

## BLACK-HEADED TODY-FLYCATCHER Todirostrum nigriceps

Poorly known north of Costa Rica. On 5 March 2013 LC-D observed one in the canopy of tall, humid, broadleaf forest in the río Labú drainage, discerning the yellow underparts, long, narrow tail and spatulate bill. A. Farnsworth (eBird 2013) also reported the species in the río Labú drainage on 27 March 1996. These are the northernmost records and represent a range extension of 350 km from the río San Juan region.

## **GREY-HEADED PIPRITES** *Piprites griseiceps*

Endemic to Central America and poorly known. T. R. Howell (*in* Martínez-Sánchez & Will, 2010) knew of just two records in Nicaragua, one collected by Richardson in the río San Juan region, and a specimen secured by Huber (1932) at El Edén. On 10 March 2013 ACV observed one for several minutes as it foraged with a large mixed-species flock in the midstorey of tall humid broadleaf forest at *c*.600 m at Camp La Vaquita. The bird perched upright in the open on a large branch before making an abrupt, upward sally to pursue a small lepidopteron. The same day LC-D & G. Duriaux observed a single nearby.

### WING-BANDED ANTBIRD Myrmornis torquata

No documented records in Costa Rica (Stiles & Skutch 1989, Sandoval & Sánchez 2012) and only recently reported in eastern Honduras (Vallely et al. 2010), M. torquata is considered Near Threatened (IUCN 2013). In Nicaragua, known from specimens collected by W. B. Richardson, including several from Peñas Blancas, Jinotega. Another was collected in 1922 at El Edén (Huber 1932). Recently found to be locally common at Cerro Musún in dpto. Matagalpa (Chavarría & Duriaux 2011, 2013). LC-D trapped two in the río Labú drainage on 3 and 5 May 2012. On 5 March 2013 we captured one, and detected others by voice, in the same area. Known from five sites in northern Nicaragua: Peñas Blancas, dpto. Jinotega, El Edén, RAAN, Cerro Musún, dpto, Matagalpa, río Labú drainage, RAAN, and Santo Domingo, dpto. Chontales. Records from southern Nicaragua in the río San Juan region were presented by Cody (2000) and Múnera-Roldán et al. (2007). Some sites listed in the literature are now largely deforested and we assume that the species must be locally extinct, e.g. at Santo Domingo (Salvin 1872) and El Edén (Huber 1932). Our experience suggests that in northern Central America the species prefers tall, humid, broadleaf forest with sparse understorey on steep, well-drained, slopes at 200-1,200 m. Known sites for M. torquata in Nicaragua, as in Honduras (Vallely et al. 2010), feature irregular forest floors with large boulders or karstic outcrops.

## **LOVELY COTINGA** *Cotinga amabilis*

Poorly documented in Nicaragua and probably declining in Central America (e.g. in Costa Rica; Sigel *et al.* 2005), where it is at best uncommon to rare and local throughout (Snow 2004). Kjeldsen (2005) reported it from Alamikangban in the lowlands of eastern RAAN. We did not find the species but A. Farnsworth (eBird 2013) reported it in the río Labú drainage on 27 March 1996.

## THREE-WATTLED BELLBIRD Procnias tricarunculatus

Regarded as Vulnerable (IUCN 2013) and undertakes complex migrations (Powell & Bjork 2004), with those of northern populations incompletely understood. LC-D encountered the species at Cerro El Torito on 17 April 2009. We heard several calling in late March 2013 in the río Labú drainage, but the species was not common, with a silent female or young male on 6 March 2013 at *c*.400 m. Present in the north-central Nicaraguan highlands above 1,200 m in February–June (LC-D pers. obs). We consider those we encountered at 425–600 m in PNS as stragglers or late transients.

# BLACK-THROATED WREN Pheugopedius atrogularis

Endemic to the Caribbean slope of Central America and poorly known near the northernmost limit of its range. T. R. Howell (*in* Martínez-Sánchez & Will, 2010) considered it to reach no further north than the río Escondido. However, it was recently recorded in eastern Honduras, in dpto. Gracias a Dios (Jones 2004, Vallely *et al.* 2010). LC-D observed one on 17 April 2009 at *c.*600 m at Cerro El Torito PNS.

## AMERICAN DIPPER Cinclus mexicanus

Very rare and local in Central America and unreported in Nicaragua since Richardson collected it at San Rafael del Norte in 1892 (Martínez-Sánchez & Will 2010). During May 2012 and March 2013 we observed singles and pairs on most days in appropriate habitat on the río Labú and its tributaries. A Farnsworth also reported the species in this region on 27 March 1996 (eBird 2013). First records from Nicaragua in >100 years.

## SCARLET-THIGHED DACNIS Dacnis venusta

Long thought to range no further north than Costa Rica (AOU 1998, Isler & Isler 1999), this widespread but scarce species was recently found in Nicaragua in the río San Juan basin at Bartola (Jones & Komar 2012). On 30 April 2012 LC-D observed a male near Rosa Grande in the buffer zone of PNS. In the río Labú drainage, on 5 March 2013, and at Camp La Vaquita, on 7 March 2013, we observed at least two pairs foraging on inflorescences of canopy vines together with Blue Dacnis *D. cayana*, Shining Honeycreeper *Cyanerpes lucidus* and Green Honeycreeper *Chlorophanes spiza*. These are the northernmost records and represent a range extension of 350 km from the río San Juan records.

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